**William F. Oakley, PhD**

Postdoctoral Associate

Department of Fish, Wildlife and Conservation Ecology

New Mexico State University, Las Cruces, NM 88003

**APPOINTMENTS**

**Postdoctoral Associate** 2024

New Mexico State University (NMSU) – Department of Fish, Wildlife and Conservation Ecology

Advisers: Dr. Martha Desmond and Dr. Fitsum Gebreselassie

**EDUCATION**

**Ph.D., Biology**. University of Oklahoma (OU), Norman, OK 2023

Dissertation: Demographic and Behavioral Characteristics of Wintering Sparrow Populations in a South Carolina Salt Marsh. Advisor: Dr. Eli S. Bridge

Graduate Certificate in Earth Observation Science for Society & Sustainability, OU 2017

**M.A., Biology.** The Citadel Graduate College, The Citadel, Charleston, SC2014

**B.A., Biology**. College of Charleston, Charleston, SC2007

**PUBLICATIONS**

Contina, A., Alcantara, J. L., Bridge, E. S., Ross, J. D., **Oakley, W. F**., Kelly, J. F., & Ruegg, K. C. (2019). Genetic structure of the Painted Bunting and its implications for conservation of migratory populations. *Ibis, 161*(2), 372-386.

Contina, A., Anderson, C. E., Hille, D. C., **Oakley, W. F.**, Bridge, E. S., Kelly, J. F., Smith, H.O., Koch, J., & Jervis, L. L. (2021). Domesticating the Exotic? An Online Survey of Attitudes towards the International Wildlife Pet Trade. *Conservation & Society, 19*(3), 184-189.

**PUBLICATIONS IN PREPARATION**

**Oakley, W.F.**, Given, A.G., Patten, M.A., & Bridge, E.S. Translocation experiments reveal strong homing abilities and site fidelity for wintering songbirds in a threatened coastal salt marsh.

**Oakley, W.F.**, Given, A.G., & Bridge, E.S. Annual survival rates and abundances of wintering songbirds in a South Carolina salt marsh.

**Oakley, W.F.** & Bridge, E.S. Predicting the impacts of future sea-level rise on wintering habitat for three tidal marsh songbird species at a South Carolina barrier island.

LePage, H.K., Bridge, E.S., **Oakley, W.F.**, & Heaston, A. Comparison of migratory and resident bird species in a contaminated environment.

**FELLOWSHIPS, GRANTS, AWARDS**

NSF National Research Traineeship (NRT) Fellowship, $39,000 2017 – 2018

OU Biology Department Award for Excellence in Graduate Student Teaching, $500 2023

OU Biology Department Award for Excellence in Graduate Student Teaching, $500 2022

Kiawah Conservancy Environmental Research Grant, $7,920 2019

Purple Martin Conservation Association Research Grant, $2,380 2019

Kiawah Conservancy Environmental Research Grant, $7,250 2018

OU Biology Loren G. Hill Excellence Fund, $500 2018
Helen Miller Payne County Audubon Society Scholarship, $500 2017

George Miksch Sutton Scholarship in Ornithology, $600 2017

George Miksch Sutton Scholarship in Ornithology, $1,185 2016

**EXPERIENCE**

**Undergraduate Teaching**

Instructor of Record, NMSU, Wildlife Ecology Fall 2024

Instructor of Record, NMSU, Introduction to Natural Resource Management Fall 2024

Graduate Teaching Assistant, OU, Principles of Physiology (Lab) 2020 – 2023

Graduate Teaching Assistant, OU, Introductory Biology (Lab) 2019

Instructor and Co-Creator, OU, Electronics for Non-Engineers 2019

Graduate Teaching Assistant, OU, Human Anatomy (Lab) 2016

Undergraduate Tutor, The Citadel, Academic Support Center, Biology/Chemistry/Writing 2014 – 2015

**Avian Field Research**

Black Rail Survey Technician, Oklahoma Department of Wildlife Conservation 2017

Grassland & Breeding Bird Survey Field Crew Leader, Oklahoma Biological Survey, OK 2015

Wildlife Research Technician, University of Delaware, DE 2012

Fall Migration Bird Banding Assistant, Town of Kiawah Island, SC 2012 – 2014

Migratory Bird Survey Field Technician, University of Southern Mississippi, MS 2011

Bird Banding Assistant in Amazonia Peru, University of Florida 2010

**ADDITIONAL EXPERIENCE & TRAINING**

Volunteer Bird Bander, Avian Ecotoxicology Research Project, OU 2018 – 2019

Volunteer Bird Bander, Kent Island Savannah Sparrow Monitoring Research, Univ. of Guelph 2017

Volunteer Bird Bander, Winter Marsh Sparrow Monitoring Project, Kiawah Island, SC 2012 – 2018

Volunteer, Wildlife Survey & Monitoring Projects, Kiawah Island, SC 2010 – 2014

Volunteer Data Processor, Osprey Migration Research, OspreyTrax.com Winter 2014

Graduate Assistant, Department of Biology, The Citadel, Charleston, SC Spring 2014
Volunteer Bird Bander, Fall Migration Banding, Kiawah Island, SC 2010 – 2011

Volunteer Trail Leader, Eastern Bluebird Monitoring Project, Kiawah Island, SC 2010 – 2011

Volunteer, Diamondback Terrapin Mark-Recapture Project, Kiawah Island, SC Summers 2010, 2011

Naturalist (Tour Guide/Educator), Kiawah Island Golf Resort, Kiawah Island, SC 2009 – 2013

Children’s Ski Instructor, Canyons Resort, Park City, UT 2008 – 2009

Wilderness Trip Leader, Camp North Star for Boys, Hayward, WI 2008

Teaching Intern, The Leadership School at Kieve-Wavus, Nobleboro, ME 2008

Southwest Branch Intern, National Outdoor Leadership School (NOLS), Tucson, AZ Fall 2007

National Outdoor Leadership School (NOLS), Semester in the Southwest Spring 2006

Boy Scouts of America, Eagle Scout awarded in 1998, 1995 – 1998

**SOFTWARE & DATA ANALYSIS SKILLS**

**Software:** R; Program MARK; ArcGIS 10.x; ArcGIS Pro; QGIS; Sea Level Affecting Marshes Model (SLAMM); MS Office; Zotero; Biopac Student Lab; Logger Pro; MaxEnt; NOAA’s Weather and Climate Toolkit (WCT); Arduino.

**Data analyses:** Estimation of demographic parameters using mark-recapture data; Survival analysis techniques (e.g., Kaplan Meier method and Cox Proportional Hazards modeling); Modeling future sea level rise impacts on coastal habitats; Likelihood-ratio tests and logistic regression models; Least cost path (LCP) analyses; Multi-model selection (AIC).

Familiarity with developing and/or coding agent-based models (ABMs), Bayesian analyses, species distribution models (SDM), population viability analyses (PVA), and extraction of data from still images and video using the R programming environment.

**SPECIALIZED FIELD SKILLS**

**Wildlife research techniques:** Mist netting and bird banding (over 2,500 passerines and near-passerine banded); Radio telemetry of birds; Point-count and transect surveys for birds; Designing and conducting translocation/displacement experiments with birds; Blood and feather sampling of birds; Carcass surveys for birds and bats; Operating acoustic recording equipment for bird and bat flight calls; Operating thermal imaging camera and screening thermal video for birds and bats; Deploying light-level geolocators; Quadrat vegetation sampling; Small mammal trapping; Terrestrial and aquatic sampling for amphibians and reptiles.

**Land and water vehicles:** 4WD; Manual transmission autos; Small horsepower boats in tidal marshes and near-coast waters; Flat-water and river canoeing; Flat-water kayaking; Towing RVs and motorboat trailers; UAV/Drone operation (e.g., DJI Phantom 4 drone).

**WORKSHOPS & PROFESSIONAL DEVELOPMENT**

Entering Mentorship Workshop, NMSU, Las Cruces, NM 2024

Establishing an Undergraduate Research Culture Workshop, NMSU, Las Cruces, NM 2024

3rd Radar Aeroecology Training School, OU, Norman, OK 2019

Science Through Multimedia Stories Workshop, Albuquerque, NM 2018

*Society for Vertebrate Paleontology 2018 Meeting*

NSF National Research Traineeship Program, OU, Norman, OK 2015 – 2018

Program MARK Workshop, OU, Norman, OK (*Co-organizer*) 2018

sUAS Remote Pilot License Test Prep Course, OU, Norman, OK 2017

Professional Ethics Training/Responsible Conduct of Research Seminar, OU, Norman, OK 2016

Software Carpentry Workshop, OU, Norman, OK 2016
Advanced Programming and Graphing in R Workshop, Washington, DC 2016

*North American Ornithological Conference*
Introduction to R Workshop, OU, Norman, OK 2015

*Annual Meeting of the American Ornithologists’ Union and the Cooper Ornithological Society*Careers in Ornithology, OU, Norman, OK 2015

*Annual Meeting of the American Ornithologists’ Union and the Cooper Ornithological Society*

**SERVICE & PROFESSIONAL MEMBERSHIP**

**Sam Noble Museum at the University of Oklahoma**

Outreach Event Volunteer, Full S.T.E.A.M Ahead at Sam Noble 2022

Bird Specimen Preparation Volunteer, Ornithology Collection 2016 – 2017

**University of Oklahoma**

Teaching Assistant, Coding Outreach for Data Education (CODE) Workshop 2022

President, Biology Graduate Student Association 2016 – 2017

**Journal Services – Peer Reviewer**

Southwestern Naturalist (2016), The Auk: Ornithological Advances (2017)

**Professional Memberships**

American Ornithological Society

Association of Field Ornithologists

Association of Southeastern Biologists